



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY
A Nationally Accredited Laboratory

737 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010560
DATE CERTIFICATION METHOD PERFORMED: July 16, 2015
DATE RECERTIFICATION DUE: January 12, 2016

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L 0.150 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L 0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

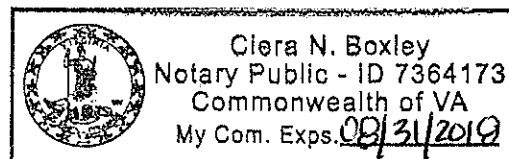
Michelle M. Billeter
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 20th day of July, 2015 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



mmB

Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
7/16/2014 To 7/16/2015

Instrument Serial Number:	010560	As of 16-Jul-15
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Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
16-Jul-15	16-Jul-15	MMB (26417)	REPLACED REGULATOR. CERTIFIED.
04-Mar-15	24-Feb-15	HMS (18910)	REPLACED UPS BACK-UP BATTERY.
24-Feb-15	24-Feb-15	DBH (21250)	CERTIFIED.
30-Aug-14	30-Aug-14	SED (24178)	CERTIFIED.

mmB

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number **010560** Worksheet Start Date **7/16/2015**

Location **DFS Central**

Address **737 North 5th Street, Richmond VA 23219**

DFS Technician **Michelle Billeter** License No. **26417**

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) **755** Reference Barometer (mm HG) **758**

Reference Barometer(RB)Serial # **009111** RB Calibration Due **5/18/2016**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.302
0.300	0.298	0.289	0.306	Sample 2	0.302
Precision		sample min	sample max	Sample 3	0.302
0		0.302	0.302		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.100	0.097	0.103	Sample 2	0.099
Precision		sample min	sample max	Sample 3	0.099
0		0.099	0.099		

Dry gas standard Lot No. (with tank no.)

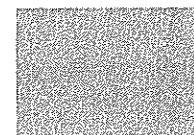
AG320502-30

☐ Replaced dry gas standard (+O-ring)

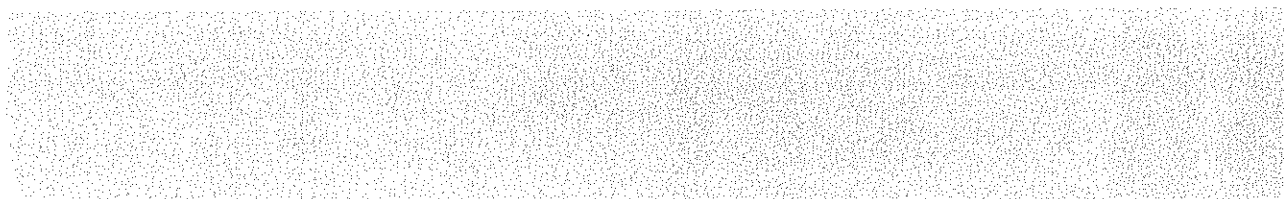
☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:



Instrument Serial Number

010560

Certification Date

7/16/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☒ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.251
0.250	0.248	0.240	0.255	Sample 2	0.250
Precision		sample min	sample max	Sample 3	0.250
0.001		0.250	0.251		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.150
0.150	0.149	0.144	0.153	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.150
0.001		0.150	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Michelle Ballitt

Date

7/16/15

Issuing Analyst

Michelle Ballitt

Date

7/16/15

JPD

Troubleshooting/Maintenance Worksheet

Location

SN 010560

DFS Central Lab 700 N 5th Street, Richmond, VA 23219

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mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010560 Test Number: 1100
Test Date: 07/16/2015 Test Time: 11:24 EDT

Technician Initials: *MMB*

Dry Gas Target: 0.248

Lot Number: 0981525014-02 Exp Date: 05/05/2017

Tank Pressure: 502 psi Barometric Pressure: 755 mmHg

System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	11:24
BLK	0.000	11:25
CHK	0.251	11:26
BLK	0.000	11:27
CHK	0.250	11:28
BLK	0.000	11:29
CHK	0.250	11:30
BLK	0.000	11:32

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

mmB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010560 Test Number: 1101
Test Date: 07/16/2015 Test Time: 11:40 EDT

Technician Initials: MMB

Dry Gas Target: 0.149

Lot Number: 1611415013-03 Exp Date: 07/05/2016

Tank Pressure: 286 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:40
BLK	0.000	11:41
CHK	0.150	11:42
BLK	0.000	11:43
CHK	0.151	11:44
BLK	0.000	11:45
CHK	0.150	11:46
BLK	0.000	11:47

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

MMB

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010560 Test Number: 1102
Test Date: 07/16/2015 Test Time: 11:54 EDT

Technician Initials: MMB

Dry Gas Target: 0.080

Lot Number: 1611408012-02 Exp Date: 07/05/2016

Tank Pressure: 213 psi Barometric Pressure: 755 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:56
BLK	0.000	11:56
CHK	0.080	11:57
BLK	0.000	11:58
CHK	0.080	11:59
BLK	0.000	12:00
CHK	0.080	12:01
BLK	0.000	12:02

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification*Department of Forensic Science*

Serial Number: 010560 Test Number: 1103
Test Date: 07/16/2015 Test Time: 12:04 EDT

Technician Initials: *MMB*Dry Gas Target: *0.020*Lot Number: *1611402011-01* Exp Date: *07/05/2016*Tank Pressure: *316 psi* Barometric Pressure: *756 mmHg*System Check: *Passed*

Test	g/210L	Time
DIAG	Pass	12:04
BLK	0.000	12:05
CHK	0.019	12:06
BLK	0.000	12:07
CHK	0.019	12:07
BLK	0.000	12:09
CHK	0.019	12:09
BLK	0.000	12:11

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check*Department of Forensic Science*

Serial Number: 010560 Test Number: 1104

Test Date: 07/16/2015 Test Time: 12:52 EDT

Dry Gas Target: 0.298

Lot Number: AG506501-06 Exp Date: 03/06/2017

Tank Pressure: 188 psi Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:53
CHK	0.302	12:54
BLK	0.000	12:55
CHK	0.302	12:56
BLK	0.000	12:58
CHK	0.302	12:58

Test Status: Success

Calibration CRC: 56E2805C

Intox EC/IR-II: Accuracy Check*Department of Forensic Science*

Serial Number: 010560 Test Number: 1105

Test Date: 07/16/2015 Test Time: 13:08 EDT

Dry Gas Target: 0.100

Lot Number: AG320502-30 Exp Date: 07/24/2015

Tank Pressure: 473 psi Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:08
CHK	0.099	13:09
BLK	0.000	13:11
CHK	0.099	13:12
BLK	0.000	13:13
CHK	0.099	13:14

Test Status: *Success*

Calibration CRC: 56E2805C

mmb

INSTRUMENT, TEST,

DFS

BILLETER, MICHELLE, M

DFS Central Lab

26417

10/01/2016

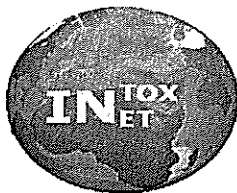
07/16/2015

010560

07/16/2015

13:23 EDT

0.00



IntoxNet MIS Report

Report Generated 16 Jul 2015 at 14:21

mmB

Test Results

Instrument Serial Number 010560

Test # 001106 Subject Test

Test Location 1 Department of
Test Date 16 Jul 2015

Test Location 2 Forensic Science
Test Time 13:17
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name BILLETER
Agency DFS Central Lab

Operator's First Name MICHELLE

Operator's Middle Initial M

Card Serial Number 126417

License Number 26417

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 16 Jul 2015

End Time 13:25

Result Time 13:23

Result Date 16 Jul 2015

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:17

Data Type BLK

Sample Value 0.000

Sample Time 13:18

Data Type CHK

Sample Value 0.099

Sample Time 13:19

Data Type BLK

Sample Value 0.000

Sample Time 13:20

Data Type SUBJ

Sample Value 0.000

Sample Time 13:21

Data Type BLK

Sample Value 0.000

Sample Time 13:22

Data Type SUBJ

Sample Value 0.000

Sample Time 13:23

Data Type BLK

Sample Value 0.000

Sample Time 13:24

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-30

Standard Expiration Date 07/24/2015

Tank Pressure 463

Barometric Pressure 756 mmHg

Blow Sample Number 1

Blow Duration 3.52 sec

Blow Volume 1717 cc

End-of-Blow Time 13:21

Blow Sample Number 2

Blow Duration 3.63 sec

Blow Volume 1833 cc

End-of-Blow Time 13:23

Tamper Evident Stamp 30aec0f

Test Status Code 0

Test Status Success